5

10

15

20

25

30

BACKGROUND OF THE INVENTION

Location dependent telecommunication services (*Location Dependent Services*) are becoming more and more significant in mobile radio networks.

A known technology for implementing such and other telecommunication services in telecommunication networks, in particular in the mobile radio network, is the "Intelligent Network" IN, which is known to the person skilled in the art through ITU publications (Q.1200 ff) and ETSI standards.

For calls originating from a mobile terminal (Mobile Originating Call, MOC), only the location of the mobile terminal (Mobile Station, MS) when the connection is set up is currently assessed.

In this context, the location of the terminal can, up until now, be established in the manner below. The message IDP (INAP Operation Initial DP) to the service center contains a location information item (*LocationInformation*) which contains the number (*LocationNumber*) of that radio cell (*serving cell*) in a mobile radio network which is originally used to set up the call. If the service customer moves into another cell (handover), the service center (for example, the SCP, Service Control Point) is given no kind of indication about the change of location.

The consequence for a service and, by way of example, its specific billing (Home Zone Billing, HZB), depending on the location, is as follows: if the service customer starts a telephone call within a privileged radio cell (Home Zone), the call is billed at a cheaper rate. This situation also does not change if he/she leaves this radio cell (Home Zone), however. The service provider wants the service customer to telephone at a cheaper rate only within his/her own radio cell(s) (Home Zone), but at the normal mobile radio tariffs outside this (these) radio cell(s).

The same applies for the opposite direction: if the service customer starts a telephone call outside his/her Home Zone and enters his/her Home Zone during the call, then his/her telephone call is billed at the higher rate in his/her Home Zone too.

The same problem also arises when the customer using the location dependent service, which uses this billing model, for example, is called (Mobile Terminating Call, MTC).

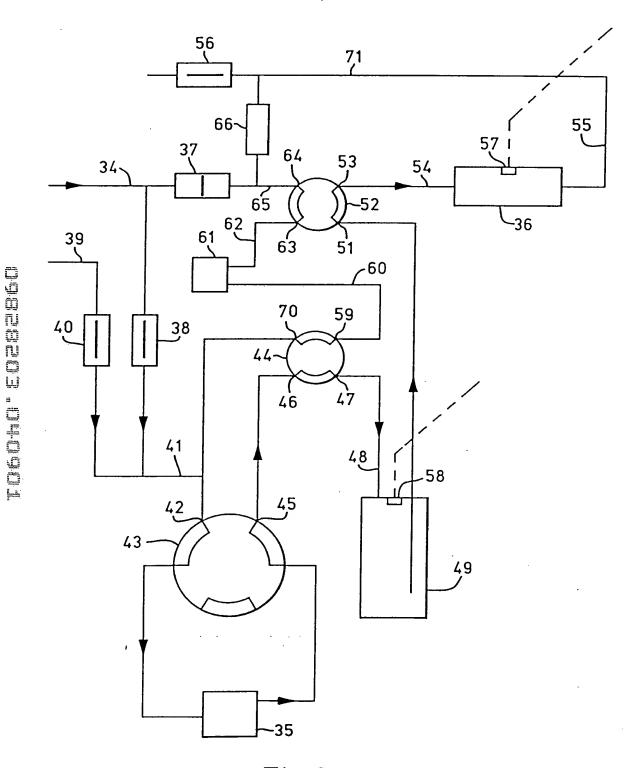


Fig.2

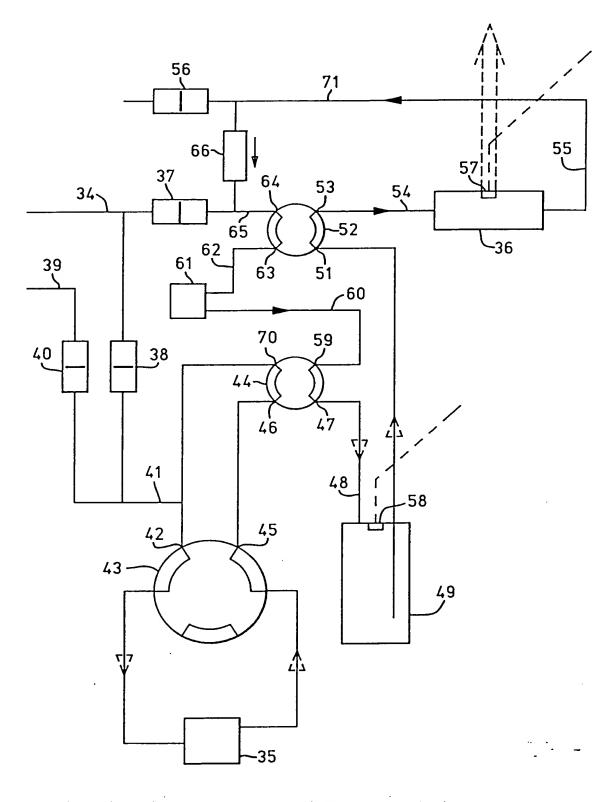
Fig.3

rocoto. Ronaneco

71 /

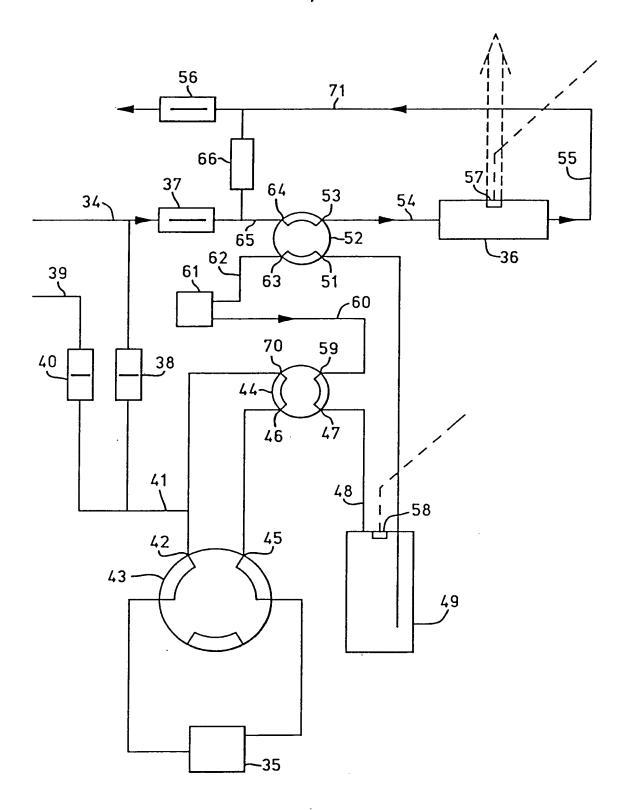
56

Fig.4



TOCOPE EDSAGO

Fig.5



COCHOL TOWNS

Fig.6

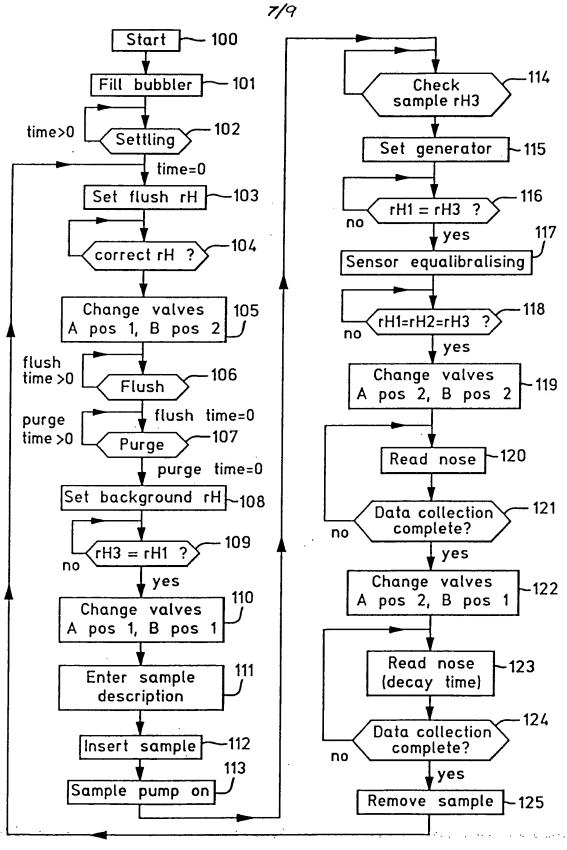


Fig.7

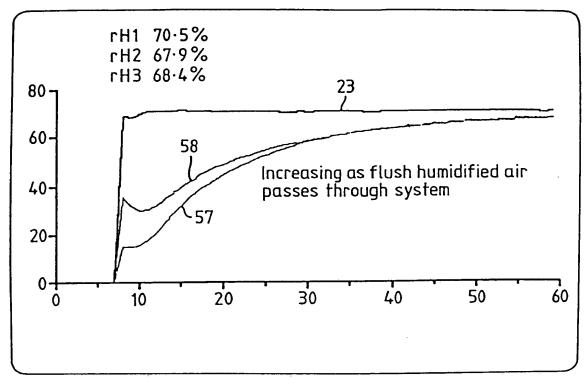


Fig.8

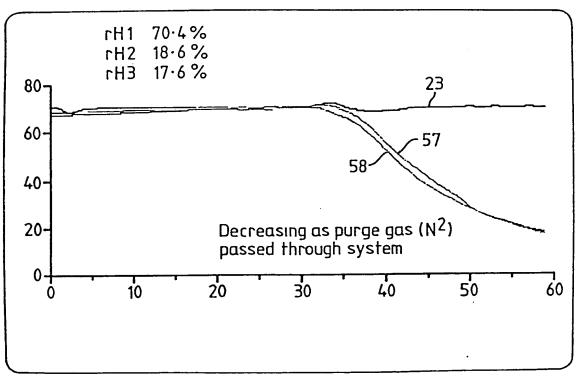


Fig.9

F1G 10

TOGOTO" COPOTO